

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 79-60

WATER RECLAMATION REQUIREMENTS FOR:

NAPA-AMERICAN CANYON WASTEWATER AUTHORITY,
NAPA SANITATION DISTRICT, AMERICAN CANYON
COUNTY WATER DISTRICT, CARNEROS WATER
DISTRICT, IRA LEE, JOSEPH CABRAL JR.,
MATTHEW THOMSON, AND JOHN AHMANN

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter Board) finds that:

1. Napa-American Canyon Wastewater Authority, Napa Sanitation District, and American Canyon County Water District (hereinafter Dischargers) together with all the parties named above (hereinafter Users) have applied for wastewater reclamation requirements.
2. The Users submitted a Report of Waste Discharge, dated January 15, 1979, which proposed use of chlorinated effluent from Napa Sanitation District oxidation ponds for the following purposes:

<u>User</u>	<u>Purpose</u>	<u>Acreage</u>
A. Ira Lee	Drip irrigation and frost protection spraying of vineyard.	45 acres
B. Joseph Cabral Jr.	Spray irrigation of pasture for milk cows.	88 acres
C. Matthew Thomson	Drip and flood irrigation of apple and pear trees.	30 acres
D. John Ahmann	Spray irrigation of pasture, fodder, fiber or seed crops.	300 acres

3. The Dischargers, as the purveyors of the treated wastewater to the proposed sites, will operate and maintain the major transmission facilities.
4. Section 13523 of the California Water Code provides that a Regional Board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purposes specified in Finding 2 could affect the public health, safety, or welfare, and requirements for these uses are, therefore, necessary in accordance with the Water Code.

5. The Board adopted a Water Quality Control Plan for San Francisco Bay Basin in April 1975. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan, specify those limits prescribed in Title 17, Section 8025 through 8050, California Administrative Code. These objectives have been superseded by Title 22, Section 60301 - 60357, California Administrative Code.
6. The Dischargers prepared an Environmental Impact Report (EIR) dated December 1976 in accordance with the California Environmental Quality Act (Public Resources Code Section 21000 et seq.). Proper irrigation management is expected to mitigate any significant adverse impact.
7. The Board has notified Napa-American Canyon Wastewater Authority, Napa Sanitation District, American Canyon County Water District, Carneros Water District, Ira Lee, Joseph Cabral Jr., Matthew Thomson and John Ahmann and interested agencies and persons of its intent to prescribe water reclamation requirements for the proposed uses.
8. This Board at a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, that the Discharger and Users shall comply with the following:

A. Reclaimed Wastewater Quality Specifications

1. The reclaimed water shall be an adequately disinfected, oxidized water which has received treatment from all of the oxidation ponds at Napa and chlorination, and shall meet the following quality limits at all times:

Coliform Organisms	Median MPN of 23 per 100 ml maximum as discharged, or at some point in the treatment process. Median is to be determined from bacteriological results of last 7 days for which analyses have been completed. MPN of 240 per 100 ml shall not be exceeded in two consecutive samples.
5 day BOD	60 mg/l maximum 30 day average 90 mg/l maximum daily
Dissolved Oxygen	2.0 mg/l minimum
Dissolved Sulfide	0.1 mg/l maximum

B. Reclaimed Wastewater Use Limitations

1. The treatment, distribution, or reuse of reclaimed wastewater shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. Use of reclaimed wastewater shall be limited to the areas specified in Finding 2 of this Order unless written authorization is obtained from the Executive Officer.
3. Reclaimed wastewater shall be applied to use areas in a manner which will prevent public contact with the wastewater.
4. Areas irrigated with reclaimed wastewater shall be clearly identified with posted notices to the public. The method and form of notification shall be subject to the review and approval of the Executive Officer.
5. All equipment, including pumps, piping, valves, etc., which may at any time contain waste shall be adequately and clearly identified with warning signs, and the Dischargers and Users shall make all necessary provisions, in addition, to inform the public that the liquid contained is sewage and is unfit for human consumption.
6. No reclaimed wastewater used for irrigation shall be allowed to escape to any area outside the disposal areas, either by surface flow or airborne spray.
7. Wastewater irrigation ponding which could provide a breeding area for mosquitoes shall be prevented.
8. If a reclamation quality requirements should be violated, the delivery of reclaimed wastewater shall be, immediately, terminated and not resumed until the Napa Sanitation District has corrected all violations and conditions which would permit the violations to recur.
9. If a use requirement should be violated, Napa Sanitation District shall immediately terminate discharge to the User violating requirements and not renew the discharge until the User has corrected all violations and conditions which would permit the violations to recur.

C. Prohibitions

1. Unless written authorization permitting reclamation of wastewater on a specific field or defined area is received from this Board's Executive Officer, the Napa Sanitation District shall not permit such a discharge of wastewater.
2. Wastewater used for reclamation shall not impair groundwater quality.

3. Wastewater shall not be sprayed on food crops other than wine grapevines. Wastewater shall not be sprayed on wine grapevines after June first or after grapes begin to form on the vines (after bloom).

D. Provisions

1. All wastewater from the Dischargers' treatment plant shall be reclaimed or retained during the period from May 16 through September 15th each year.
2. The Dischargers shall promote and encourage increased reclamation to reduce the amount of discharge to the river during the period from September 16th through May 15th.
3. The Dischargers shall comply with the following time schedule to assure compliance with Prohibitions C.1. and C.2. and Provisions D.1. and D.2. of this Order:

<u>Task</u>	<u>Completion Date</u>
a. Submit a report that is satisfactory to the Executive Officer after consultation with the Health Department, on how each well will be adequately protected and describe, in detail, the safeguards to prevent backflow of reclaimed wastewater into the well casing and seepage down the outside of the casing.	August 1, 1979
b. Submit schedule for completion of all work necessary to achieve full reclamation or retention of the May 16th through September 15th wastewater flow	November 1, 1979
c. Comply with requirement to reclaim or retain all wastewater from May 16th through September 15th each year.	May 16, 1981
4. The Dischargers and Users shall comply with Standard Provisions Nos. 2, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, and 17; and all Reporting Requirements and Definitions of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977.	
5. The Dischargers and Users shall file with the Board technical reports on self-monitoring work performed according to detailed specifications as directed by the Executive Officer.	
6. The Dischargers and Users shall permit the Board or its authorized representatives:	

- a. Entry upon premises in which an effluent source is located or in which any required records are kept.
 - b. Access to copy any records required to be kept under terms and conditions of this Order.
 - c. Inspection of any monitoring equipment or method required by this Order.
 - d. Sampling of any discharge.
7. The Dischargers and Users shall maintain in good working order and operate, as efficiently as possible, any facility or control system installed by the user to achieve compliance with the water reclamation requirements.
 8. The Dischargers and Users shall file with the Regional Board a report on waste discharge at least 180 days before making any material change or proposed change in the character, location or volume of reuse.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on May 15, 1979.

FRED H. DIERKER
Executive Officer

Attachment:
Standard Provisions, Reporting Requirements
and Definitions dated April 1977